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THE

### NATIONAL GEOGRAPHIC MAGAZINE

# THE BATTLE OF THE POREST

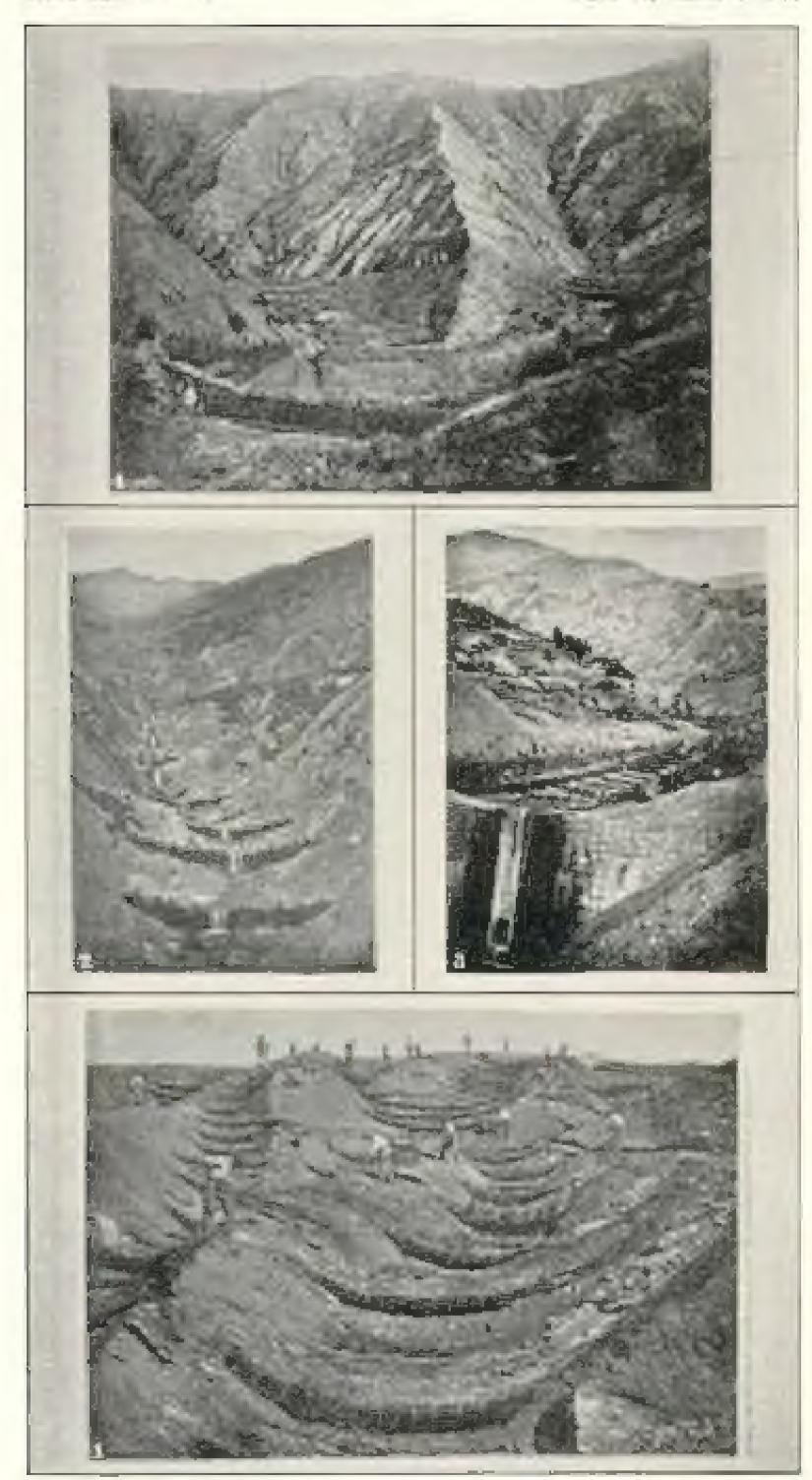
B. E. FERNOW



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## NATIONAL GEOGRAPHIC MAGAZINE

### THE BASTLE OF THE FOREST

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### R. E. PERSON

Promoted In horse the Sources Thereinhor IS, 189.

The earth is a potential forest. Govern time, transfers from visitogic revolutions and from investments by man and transgrowth pand forest business everywhere, with few excepted localities.

Its personnal miture and fis elevation in height above all other forms of vegetation, together with its remarkable reemperative powers, assore to the arbon scent flora this final victory over its competitors.

So impressed was fir has Grey with the persistence of individual tree life that he questioned whother a tree need over disc. For the tree [uniske the animal] is gradually developed by the successive addition of new parts. It aminally consws not only its buils and leaves, but its wood and its roots; everything, indeed, that is concerned in its for and growth. Thus, like the fabled Eson, being restored from the decreptions of age to the bloom of early youth, the most recent tranchiets ocing placed by means of the latest layer of wood in favorable communication with the newly formed roots and these extending all a corporating rate into firsh soil, why has not the tree all the

conditions of existence in the thousandth that is possessed in the himdrealth or the tenth year of its age?

Fin old and central part of the trink may, indeed, decay, but this is of little moment so long as new layers are regularly formed at the arramaterouse. The tree survives, and it is difficult to show that it is liable to death from old age. I may proper source of the term.

However this may be, we know tress succiting to external cuttees. Nevertheless they are precipital enough to external chee. "To be the object introducents of the globe, to be more anesant than any human monument, as exhibiting a some of its survivors a living a doporty compared with which the monthlering ratios of the earliest Egyptain circlestion, the pyramois the monthless, are but structures of vesteries." The dragon trees, so called, found on the island of Teneric, of the African round, are believed to be many thousand years of). The largest is only 15 feet in diameter and 75 feet high. Our sequence are more rapid growers and attain in 3,000 to 4,000 years, which may be the highest age of living ones, more than double those functions.

While this percetence of life is one of the attributes which in the bottle for life ranst count of immensuration advantage, the other observatoristic or arboreal development, its elevation in height above everything living is not less an advantage over all competitors for light, the source of all life. Can there be any doubt that in this competition size rates intimately triumph and the undersized go to the wall?

Endowed with prose weapons of defended and observe warfare, forest growth, through all geologic ages during which the earth supported life, has endeavored and no doubt to a degree succeeded in gaining possession of the earth's surface.

As torra firms in rease I morging in islands above the occurso increased the area of the forest changing in composition to correspond with the change of physical and changic conditions.

the early as the Devonian are who abut a small part of our continent was formed the neud flats and earled tools ever increasing by new accomplations under the action of the stay = and currents of the opens, were changed from a bare and historia world above the devel to one of forest end hills and date.

<sup>\*</sup>Longovity of Trace: "Scientific papers of Asa stray" sciented by China Socientific vol. 2, 1887, p. 11.

Not only were such quaint forms as the ten rushes of Colo-

our pine. the Imitoryton, had roade its apprarance.

The same class of flowerless plants known as vascular cryptogains, with the collectal translations and ded became more numerous and laxurimat in the Carbonications are, as well as the flowering Similaries and conference Danacides. This vegetation probably spread over all the dry land, but the thick deposits of veretable remains accumulating in the marshy places under dome jungle month and in shallow lakes with floating islance, were finally in the course of geologic psychiations, turned into the great coal fields.

In those and subsequent goologic times some of the floral types vanished altogether and new ones originated, so that it the end of Masozaic times a committable change in the landscape

Lad taken place.

In addition to conferous trees, the palms appeared, and also the first of augusparent such as the oak, dogwood, leech, popular, willow, speakes and tudip tree. Speakes increased in numbers, adapted to all sorts of conditions; the forest in a most varied and luxuriant form chanced the mountain sides to the very crests, and covered the land to the very poles with a flora of tropical and semi-tropical species.

Then cause the leveling processes and other changes of past-Ternary or Quaternary times; the glaciation of lands in northora fatitudes, with the consequent changes of climate, which brought change overesponding changes in the ranks of the forest, buling out many of the species around the north pole. Only the harder races survived, and these were driven southward in

a romable rout.

When those boreal times subsided in a degree, the advance of the forest was as sure as before, but the battle order was someschal changes to suit the new conditions of soil and climate. Only the bardiest tribes could regain the porthermorest posts, and these found their former places of occupancy changed by flevial and barastrine formations and the drifts borns and deposited by the jea-shoots, while some by their constitution were enticly unfitted from engaging an a porthern camonica or found incrementable barriers in the refrigerated cost west elevations of Parope and western Asia.

In addition, there had come new troubles from coleanie crap-

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tions, which continually was tel the recommend ground from the persistent advance guards of the erborest army, smallilating them again and again.

Finally, when the more settled goologic and climatic conditions of the present on arrived and the sun presencer a world ready for human imbitation, mun found what we are phensed to call the virgin forest—a preduct of long continued evolutionary changes—occupying most if not all the dry land, and ever interaupon extending its realin.

This probletone review of the buttle of the forest caunot be left without giving some historic evidences of its truth.

Not only have pade abolitizate uncarried the remounts of the circumpedar flow, which give evidence that it resembled that of present tropic and scani-tropic composition, but they have also shown that suprotos, magnetics, it purposes and trickeries existed in Europe and on our own continent in regions where they are now extinct. We have also evidences of the repeated successes and reverses of the forest in its attempts to establish fixelf through long professor transformations.

One of the most interesting evidences of these viewsitudes in the oattle of the forest is represented in a section of Amethyst two antain in Yellowstone National Park, exhibiting the remains of lifteen forest growths, one above the other, buried in the lava, Again and again the forest sold dued the inhose table excertations; again and again it had to yield to apparing force.

Among these petrified actorsors of former forest glory, make nodes, oak, thisp tree, succeives, linders and ash have been identified, accompanying the sequent in regions where now only the bardiest coniter growths of pines and spen es that a congonial climate.

As the forest formed and spread thus during the course of ages, so does it form and spread today, unless man, driven by the tocreasing meds of the soil. This pattent extension of the forest rotor or afforestation takes place readily wherever soil and climate is favorable, but it is accomplished just as sorrie, thought infinitely about, in unfavorable situations. On the maked rock, the course detritus and gravel bads, on the paraly solutions sand deposits of river and ocean, or in the bot dry plains, the preliminary process work a the lower vegetation is required. Algo belons, the secon, grasses, boths and shrubs must

precede to ruthwate the naked rock, to mellew the rough gravel backs to make the son, to recrease the soil moisture by shading the ground and gradually ranger it at for the aborte of the forcel monarch. The army of soil-makers and sail-breakers, the phonocra, as it were, of the forest, are a burdy race, making less demands for their support than those that follow. They came from different tribes, accorning to the soil connecess in which they have to Lattle. As snot as they have established themsolves they begin their cultivatory activity, whire consists in a taleasing from the sucker soil and four the air the nutritive pleanests, returning them to the soil when they be and decicy, in a form much more suitable for the support of the higher plants. The putritive claments and the physical properties of the said are improved and appropried by the repeated growth and doesy of these promeers, in that the soil is deepened and made mellow and its enjoyety for mountains increment. The waters charged with carbonic heid derived from the decay of the vegetal buttitle hasten the decomposition of the underlying suck, and the fertile soil layers improve thitil more assulface practic consulent. The humblest workers algo, lichous caen and mosses, are followed by seriges, dry grasses, herbs and shrabs, or in the frier climates by acryes and yuccas. Then come the succelent process and boths, gradually covering the soil with a mendow or practic, thus shrubs become more trains note, by degrees closing up, shadion the ground and avershadowing the grasses, and Easily the time is rule for the arborescent flore. Nor describen the forest appear at once in its fullises and variety of form. cough trees, stangeline or extractioners in small uppdage and shrul-like and stunted forms first arrive, gradually increasing in manifer and improving in form. These by those shade and by the fitting formed from the fail and deeny of their foliage inprove the soil for their betters to follow.

The aspent (Popular translands) is one of these foregroups, which, thanks to the profile production of light fathery seed, is readily waited by the winds over numbereds of stiles, readily germinates and rapidly grows under exposure to full similable and even now in the Rocky mountains and elsewhere quickly takes possession of the areas which man has rathlessly destroyed by are. This humble and ubequitous but otherwise almost uses best tree is miture's restorative, covering the sone and scales of the burst mountain side, the bases pooned upon grir your wounds.

Though short-lived with its light supamer foliage turning into brilliant godden authorn before it gives sententl shade and preserves from the thorsty samental wind some moisture, so that the better kinds may thrive and take its place when it has fulfilled its mission.

One of the strates or half trees which first take passession of the soil in the western mountain country is the smalled manufacture of Coronarpus lediscous covering the barrel slows after the fire has killed the old conter.

bushes; or in the mountains of Perceylvania and the Alleghenies in secret, accuracy shruhs blee the laured and rhododendrous or hawthern, visurement and wild charry are the first comers, whole along mater-recurses ablees and without even even the water cuts marrower channels extelling the soil which is washed from the hillsides and increasing the land area.

One of the most interesting submasses was the new territory from the ocean itself, is the mangrood along the coast of Footion. Not only does it seach our with its nortal roots entangling to their meshes whatever litter smy float about and these gradually had ling up the shore, but it potents even its young brood into the nevertoo of the buttle, to wrestle with the waves and gain a footbold as best it may.

Not less interesting in this respect is that denotes of the southern so map, the babi type is with its curious root excressional known as express knows, which whatever their physiologic significance, are most helpful in expediting change of water into look sufficiently slep to be expelled of supporting the more fashdious species in regard to moisture conditions.

In passing the rescarkable adaptation to diverse conditions of some of the tree species about the noticed, as it gives their rignificance as geographic factors. The trees of the swamp, or all sense meny of there, seem to indicate their todapendence of neasture combines by the range of climate and soil in which they are found. In fact, they grow in the swamp, not because that is their most emitable begany but because they can do so to the cochrana of other competitors. The bald express itself will grow to the dry soil and and and amorphism of Texas and Mexico; the oak which associate with it in the swamp will occupy almost any soil and site, the swamp grow or liquid ambaris found in similar places of habitat. The juniper or con soin;

which was large tree to the sourcepe of homeo, come a good to triest militar of the castern thinky inscitains with a greatly sem with arel hard textores, supellying the most one introduction mester. The state of experience is a second distribution of the part of the way of not about to plant has one or formed these. In facility of these ere or enting demonstrate, make a solventer detter determination and Flor actable will as were fixing Perpositions and I from Locks and At a fix const. It is remained to get the post of a file weakers a cond Longkington Legitiers (2) Time box and Wozat Proton, 7 . It respectively, as wedlige hit is out, high my stall make the mit top rate river but and, or with Lagray Tests, its time of apoles of the wind of safety to the buse land barron mon targeties in a ke pores a reason of this born in forests, born and \$1. In this greatesact arms. took though excide field now light the economic thrightnepolic read satter a new the very fore need as year as guara of she forest. The thickory had to see about to the arrive soul of a source where the product residence of the compact of the first and of states. r resource followers of the large large care to grad aparticle, which hap do in

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<sup>•</sup> In a paragraph of the force of the control description for a delication of selections of the control of th

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was secured by stomes and some by some, the oil to be proceedings of by gen tes, georges, has meet a of gule me, order treatment of its wedth much depth. ethal will demonite the words examped away, said I take and a Kips to agent of wearen ger will the test hater that elimentaries in this or fine pieces of a to-bide petops write an overtest on businereds to have as the days quite and discuss pasall one to fit in the bodies. The strainer but of the expanse is not become present a street out. · Caught of guerns each! Buck was some on a more finds for thele of this way. her so used more in the worlder site is World, jet incoming go region, it is being a fall of too home he writered suspected to a theory accounts, accounts see characterized by to gaze, but inflationed as most by an absenced to be early perfected from an exerennies. Hi would be round by the a himstach in groupe my electric through ight. estimate property. It are I brownies a narrow group of our a feature on it. discrete, as more of foot discussion with it the form of the principles of a single a nest of ... Where they already means we have to be seen the good budge rotal laboral engages like, or mote territor with it in Date was rate, interpretable to fallsage Was retre measurements to use A beyond from our not read appeal doors. Let well the line t proof a continue purpose as a fiel of a notice to be one temperatures by the west negroundates a suppressed party and contributely triple where the own et and a ment in I many that corresponds the primaries ampliant of

I to bester rition is a special like the single highlor special expense, but exclude over the school time uplant. When the partial property is being expensed in the travel of compact the property is not excluded the value of the control of the co

The considering according for the later one would repete as not the safe enjoyer. The considered for the relative of a consequent of the consequent of the safe of the former of the fields of the relative planties, and content of the former of the enjoyer of the relative to the safe of the consequent of the safe of the safe that a safe of the safe that of the safe of the safe that of the safe of the

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What the farmer was receit upon i one of i are a recessor close a the problem, proportion a man or he not prepared to fart or west by receipes a of proposed so the of the planet try what so so where no fixing the group substation extraction covers at hims well of a more makes at the western country. What do fixe the one when a establishes or under times their countries, the second of a settled fire usually to a fifth that the running we have been to close up the filter to be That these of the second o

Hoters our estate per les troct out remaining of its les ogtrout, execcempt the termet our construct ve the rime, so estate we excilinate prove and, wast bill a vege statel ten les nest and we shall so no tright for home recorrers out our concert, and of our limit y go limbly from de would like to make its an ever While these exalications of American valuations are covoid for en principles of the interest, home is a make a record proper els or ofer the remarkable surrance, home is a make a record proper els or ofer the remarkable in the main relations. For each prove to be used but

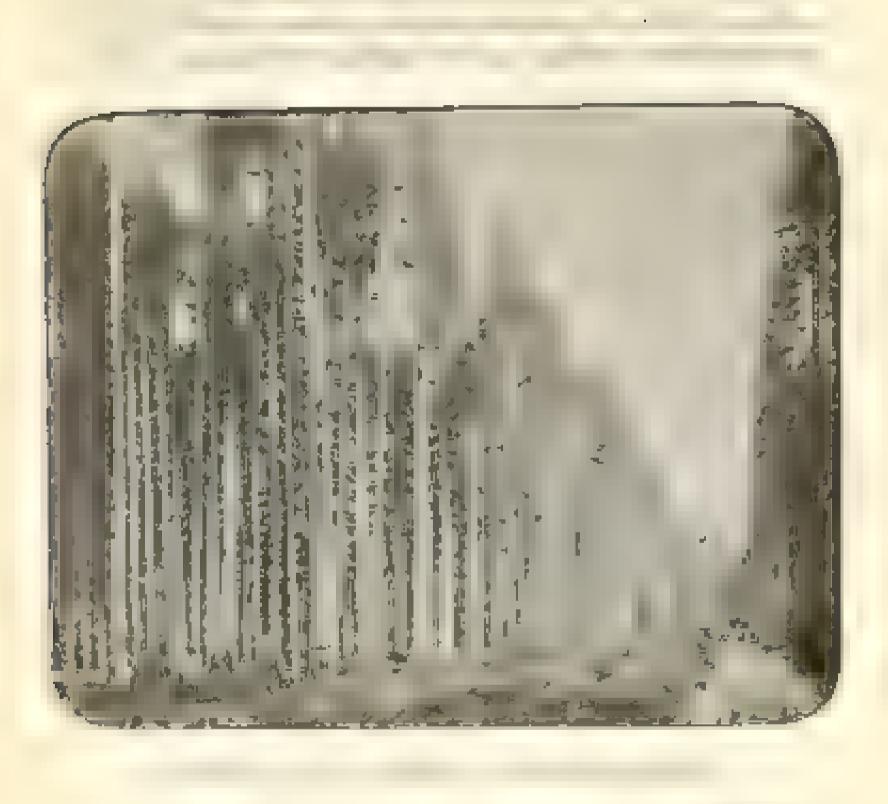
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